State of California California Regional Water Quality Control Board, Los Angeles Region

RESOLUTION NO. 2004-019R December 13, 2004

Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Bacteria in the Malibu Creek Watershed.

WHEREAS, the California Regional Water Quality Control Board, Los Angeles Region, finds that:

The Federal Clean Water Act (CWA) requires the California Regional Water Quality Control Board, Los Angles Region (Regional Board) to develop water quality objectives, which are sufficient to protect beneficial uses for each water body found within its region.

- 2. A consent decree between the U.S. Environmental Protection Agency (USEPA), Heal the Bay, Inc. and BayKeeper, Inc. was approved on March 22, 1999. This court order directs the USEPA to complete Total Maximum Daily Loads (TMDLs) for all impaired waters within 13 years. A schedule was established in the consent decree for the completion of the first 29 TMDLs within 7 years, including completion of a TMDL to reduce bacteria at Malibu Creek and Lagoon by March 22, 2003. The remaining TMDLs will be scheduled by Regional Board staff within the 13-year period.
- 3. The elements of a TMDL are described in 40 CFR 130.2 and 130.7 and section 303(d) of the CWA, as well as in USEPA guidance documents (Report No. EPA/440/4-91/001). A TMDL is defined as the sum of the individual waste load allocations for point sources and load allocations for nonpoint sources and natural background (40 CFR 130.2). Regulations further stipulate that TMDLs must be set at levels necessary to attain and maintain the applicable narrative and numeric water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality (40 CFR 130.7(c)(1)). The regulations in 40 CFR 130.7 also state that TMDLs shall take into account critical conditions for stream flow, loading and water quality parameters.
- 4. The numeric targets in this TMDL are not water quality objectives and do not create new bases for enforcement against dischargers apart from the water quality objectives they translate. The targets merely establish the bases through which load allocations (LAs) and waste load allocations (WLAs) are calculated. WLAs are only enforced for a discharger's own discharges, and then only in the context of its National Pollutant Discharge Elimination System (NPDES) permit, which must be consistent with the assumptions and requirements of the WLA. The Regional Board will develop permit requirements through a subsequent permit action that will allow all interested persons, including but not limited to municipal storm water dischargers, to provide comments on how the WLA will be translated into permit requirements.
- 5. Upon establishment of TMDLs by the State or USEPA, the State is required to incorporate the TMDLs along with appropriate implementation measures into the State Water Quality

Management Plan (40 CFR 130.6(c)(1), 130.7). This Water Quality Control Plan for the Los Angeles Region (Basin Plan), and applicable statewide plans, serve as the State Water Quality Management Plans governing the watersheds under the jurisdiction of the Regional Board.

- 6. The Malibu Creek watershed is located about 35 miles west of Los Angeles. The 109-square mile watershed extends from the Santa Monica Mountains and adjacent Simi Hills to the Pacific Coast at Santa Monica Bay. Several creeks and lakes are located in the upper portions of the watershed, and these ultimately drain into Malibu Creek at the downstream end of the watershed. Historically, there is little flow in the summer months; much of the natural flow that does occur in the summer in the upper tributaries comes from springs and seepage areas. During rain storms the runoff from the watershed may increase flows in the creeks dramatically. Flows from watershed drain into Malibu Lagoon and ultimately into Santa Monica Bay when the lagoon is breached
- 7. The Regional Board's goal in establishing the Malibu Creek Watershed Bacteria TMDL is to reduce the risk of illness associated with swimming in waters contaminated with human sewage and other sources of bacteria. Local and national epidemiological studies compel the conclusion that there is a causal relationship between adverse health effects, such as gastroenteritis, and recreational water quality, as measured by bacteria indicator densities.
- 8. USEPA established a TMDL for bacteria on March 21, 2003. The USEPA TMDL was not required to include an implementation plan. Therefore, the Regional Board has developed a revised TMDL, which includes an implementation plan which requires reduction of bacteria loading to the Malibu Creek watershed from the largest anthropogenic sources, within 6 years for dry weather, and 10 years for wet weather.
- 9. Regional Board staff have prepared a detailed technical document that analyzes and describes the specific necessity and rationale for the development of this TMDL. The technical document entitled "Total Maximum Daily Loads for Bacteria in the Malibu Creek Watershed" is an integral part of this Regional Board action and was reviewed, considered, and accepted by the Regional Board before acting. Further, the technical document provides the detailed factual basis and analysis supporting the problem statement, numeric targets (interpretation of the numeric water quality objective, used to calculate the load allocations), source analysis, linkage analysis, waste load allocations (for point sources), load allocation (for nonpoint sources), margin of safety, and seasonal variations and critical conditions of this TMDL.
- 10. On January 29, 2004, prior to the Board's action on this resolution, public hearings were conducted on the TMDL for Bacteria in Malibu Creek and Lagoon. Notice of the hearing for the Malibu Creek Watershed Bacteria TMDL was published in accordance with the requirements of Water Code Section 13244. This notice was published in the Los Angeles Times on December 6, 2004.
- 11. The public has had reasonable opportunity to participate in review of the amendment to the Basin Plan. A draft of the TMDL for bacteria at Malibu Creek Watershed was released for public comment on October 10, 2003. A public workshop was conducted at the City of Malibu on October 22, 2003, and at the regularly scheduled Regional Board meeting on November 6, 2003. Staff responded to comments and revised the draft TMDL in response to comments. A revised draft of the TMDL for bacteria at Malibu Creek Watershed was released for public comment on December 5, 2003; a Notice of Hearing and Notice of Filing

were published and circulated 45 days preceding Board action; Regional Board staff responded to oral and written comments received from the public; and the Regional Board held a public hearing on January 29, 2004 to consider adoption of the TMDL.

- 12. On January 29, 2004, the Los Angeles Regional Water Quality Control Board adopted Resolution No. 2004-019, "Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load (TMDL) for the Malibu Creek and Lagoon Bacteria TMDL."
- 13. Based on subsequent review and comments from the public a revised draft of the TMDL for bacteria at Malibu Creek Watershed was released for public comment on September 14, 2004; a Notice of Hearing and Notice of Filing were published and circulated 45 days preceding Board action; Regional Board staff responded to oral and written comments received from the public; and the Regional Board held a public hearing on December 13, 2004 to consider adoption of the revision to the TMDL.
- 14. In amending the Basin Plan, the Regional Board considered the factors set forth in sections 13240 and 13242 of the California Water Code.
- 15. The amendment is consistent with the State Antidegradation Policy (State Board Resolution No. 68-16), in that the changes to water quality objectives (i) consider maximum benefits to the people of the state, (ii) will not unreasonably affect present and anticipated beneficial use of waters, and (iii) will not result in water quality less than that prescribed in policies. Likewise, the amendment is consistent with the federal Antidegradation Policy (40 CFR 131.12).
- 16. The basin planning process has been certified as functionally equivalent to the California Environmental Quality Act requirements for preparing environmental documents (Public Resources Code, Section 21000 et seq.) and as such, the required environmental documentation and CEQA environmental checklist have been prepared. A CEQA Scoping hearing was conducted on October 22, 2003 at the City of Malibu Council Chambers, 23815 Stuart Ranch Road. A notice of the CEQA Scoping hearing was sent to interested parties including cities and/or counties with jurisdiction in or bordering the Malibu Creek Watershed.
- 17. The proposed amendment results in no potential for adverse effect (de minimis finding), either individually or cumulatively, on wildlife.
- 18. The regulatory action meets the "Necessity" standard of the Administrative Procedures Act, Government Code, Section 11353, and Subdivision (b).
- 19. This TMDL is adopted pursuant to Water Code sections 13240 and 13242, and consistent with Section 303(d) of the Clean Water Act to implement existing water quality standards. These sections do not require the weighing of cost versus benefits. With respect to this TMDL, economics were considered when the water quality objectives were originally adopted, and the TMDL implements these existing water quality objectives.

Nonetheless, as a matter of sound public policy, the Regional Board developed estimates of costs associated with potential implementation strategies, and those cost are identified in the TMDL document.

20. In order to reduce the risk of illness associated with contact recreation in waterbodies located in the Malibu Creek watershed, the Regional Board finds it necessary to require local agencies to investigate and report on bacterial water quality within their jurisdictions pursuant to Water Code section 13225. Local agencies are encouraged to coordinate regional monitoring programs to avoid fragmented analyses and to ensure cost efficiencies for private property owners.

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Certain reports and monitoring programs are contemplated in the TMDL, but those programs/reports will require the issuance of subsequent directives by the Executive Officer. To the extent those programs/reports are required by Water Code sections 13267 and 13225, the Executive Officer will comply with the requirements of Water Code sections 13267 and 13225.

- 21. The Basin Plan amendment incorporating a TMDL for bacteria for the Malibu Creek Watershed must be submitted for review and approval by the State Water Resources Control Board (State Board), the State Office of Administrative Law (OAL), and the USEPA. The Basin Plan amendment will become effective upon approval by OAL and USEPA. A Notice of Decision will be filed.
- 22. If during its approval process the SWRCB or OAL determines that minor, non-substantive corrections to the language of the amendment are needed for clarity or consistency, the Executive Officer may make such changes, and shall inform the Board of any such changes.

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THEREFORE, be it resolved that pursuant to sections 13240 and 13242 of the Water Code, the Regional Board hereby amends the Basin Plan as follows:

A SANGERMAN

- 1. Pursuant to Sections 13240 and 13242 of the California Water Code, the Regional Board, after considering the entire record, including oral testimony at the hearing, hereby adopts the amendments to Chapter 7 of the Water Quality Control Plan for the Los Angeles Region, as set forth in Attachment A hereto, to incorporate the elements of the Malibu Creek Watershed Bacteria TMDL, and so doing, amends Resolution No. 2004-19 accordingly.
- 2. The Executive Officer is directed to forward copies of the Basin Plan amendment to the State Board in accordance with the requirements of section 13245 of the California Water Code.
- 3. The Regional Board requests that the State Board approve the Basin Plan amendment in accordance with the requirements of sections 13245 and 13246 of the California Water Code and forward it to OAL and the USEPA.
- 4. If during its approval process the State Board or OAL determines that minor, non-substantive corrections to the language of the amendment are needed for clarity or consistency, the Executive Officer may make such changes, and shall inform the Board of any such changes.
- 5. The Executive Officer is authorized to sign a Certificate of Fee Exemption.
- 6. The Executive Officer is directed to bring the Basin Plan amendment before for Regional Board for reconsideration within 120 days, or as soon as practical, of adoption by the State Board of proposed regulations for onsite wastewater treatment systems.

I, Jonathan S. Bishop, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a resolution adopted by the California Regional Water Quality Control Board, Los Angeles Region, on December 13, 2004.

Jonathan S. Bishop

Executive Officer

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Proposed Amendment to the Water Quality Control Plan – Los Angeles Region to incorporate the Malibu Creek and Lagoon Bacteria TMDL

Proposed for adopted by the California Regional Water Quality Control Board, Los Angeles Region on December 13, 2004

Amendments:

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Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)
Tables

7-10 Malibu Creek and Lagoon Bacteria TMDL

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7-10.2. Malibu Creek and Lagoon Bacteria TMDL: Final Allowable Exceedance Days by
Sampling Location

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Chapter 7. Total Maximum Daily Loads (TMDLs) Summaries, Section 7-10 (Malibu Creek and Lagoon Bacteria TMDL)

This TMDL was adopted by the Regional Water Quality Control Board on December 13, 2004.

This TMDL was approved by:

The State Water Resources Control Board on [Insert Date]. The Office of Administrative Law on [Insert Date]. The U.S. Environmental Protection Agency on [Insert Date].

The following table includes the elements of this TMDL.

Table 7-10.1. Malibu Creek and Lagoon Basins Bacteria TMDL: Elements

Element	Key Findings and Regulatory Provisions
Problem Statement	Elevated bacterial indicator densities are causing impairment of the
	water contact recreation (REC-1) beneficial use at Malibu Creek,
	Lagoon, and adjacent beach. Swimming in waters with elevated
•	bacterial indicator densities has long been associated with adverse
	health effects. Specifically, local and national epidemiological studies
	compel the conclusion that there is a causal relationship between
	adverse health effects and recreational water quality, as measured by
	bacterial indicator densities.
	bacterial indicator delisities.
Numeric Target	The TMDL has a multi-part numeric target based on the bacteriological
(Interpretation of the numeric	water quality objectives for marine and fresh water to protect the water
water quality objective, used to	
calculate the waste load	of public health risk in recreational waters.
allocations)	of public health risk in recreational waters.
unocunons)	These bacteriological objectives are set forth in Chapter 3 of the Basin
	Plan. The objectives are based on four bacterial indicators and include
	both geometric mean limits and single sample limits. The Basin Plan
	objectives that serve as the numeric targets for this TMDL are:
	objectives and serve as and manifeld sargest for and man man
	In Marine Waters Designated for Water Contact Recreation
	(REC-1)
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	1. Geometric Mean Limits
	a. Total coliform density shall not exceed 1,000/100 ml.
	b. Fecal coliform density shall not exceed 200/100 ml.
	c. Enterococcus density shall not exceed 35/100 ml.
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	2. Single Sample Limits
	a. Total coliform density shall not exceed 10,000/100 ml.
en e	b. Fecal coliform density shall not exceed 400/100 ml.
	c. Enterococcus density shall not exceed 104/100 ml.
and a property of the second	d. Total coliform density shall not exceed 1,000/100 ml, if the
	ratio of fecal-to-total coliform exceeds 0.1.
	In Fresh Waters Designated for Water Contact Recreation
	(REC-1) is the first of the second of the se
	1. Coometrie Moon Limite
	1. Geometric Mean Limits
	a. E. coli density shall not exceed 126/100 ml.
	b. Fecal coliform density shall not exceed 200/100 ml.
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	2. Single Sample Limits
	a. E. coli density shall not exceed 235/100 ml.
	b. Fecal coliform density shall not exceed 400/100 ml.

¹ The bacteriological objectives were revised by a Basin Plan amendment adopted by the Regional Board on October 25, 2001, and subsequently approved by the State Water Resources Control Board, the Office of Administrative Law and finally by U.S. EPA on September 25, 2002.

These objectives are generally based on an acceptable health ris marine recreational waters of 19 illnesses per 1,000 exposed indivi as set by the US EPA (US EPA, 1986). The targets apply through the year. The final compliance point for the targets is the point which the effluent from a discharge initially mixes with the recewater. Implementation of the above bacteria objectives and the association of the single say objectives. As required by the CWA and Porter-Cologne Water Quality objectives to protect those uses, an anti-degradation pictives are plans include beneficial uses of waters, quality objectives to protect those uses, an anti-degradation pictives recessary to implement water quality standards, and other plans policies necessary to implement water quality standards. The 'refersystem'anti-degradation approach' means that on the basis of histic exceedance levels at existing monitoring locations, including a reference beach within Santa Monica Bay, a certain number of exceedances of the single sample bacteria objectives are permitted, allowable number of exceedance days is set such that bacteriological water quality at any site is at least as good as designated reference site within the watershed and (2) there is degradation of existing bacteriological water quality. This apprince of the single sample objectives and that not the intent of the Regional Board to require treatment or diversionatural coastal creeks or to require treatment of natural source bacteria from undeveloped areas. The geometric mean targets may not be exceeded at any time rolling 30-day geometric means will be calculated on each day weekly sampling is conducted, the weekly sample result will assigned to the remaining days of the week in order to calculate and reach existing monitoring site is assigned an allowable number exceedance days for three time periods (1) summer dry-weather (A to October 31), (2) winter dry-weather (November 1 to March	Element	Key Findings and Regulatory Provisions
marine recreational waters of 19 illnesses per 1,000 exposed indivials as set by the US EPA (US EPA, 1986). The targets apply through the year. The final compliance point for the targets is the point which the effluent from a discharge initially mixes with the recewater. Implementation of the above bacteria objectives and the association approach approach? Tather than the alternative 'natural so exclusion approach' or strict application of the single so objectives. As required by the CWA and Porter-Cologne Water Quality objectives. As required by the CWA and Porter-Cologne Water Quality objectives to protect those uses, an anti-degradation per collectively referred to as water quality standards, and other plans policies necessary to implement water quality standards. The 'refer system/anti-degradation approach' means that on the basis of hist exceedance levels at existing monitoring locations, including a reference beach within Santa Monica Bay, a certain number of exceedance lumber of exceedance days is set such that bacteriological water quality at any site is at least as good as designated reference site within the watershed and (2) there is degradation of existing bacteriological water quality. This apprive recognizes that there are natural sources of bacteria that may cau contribute to exceedances of the single sample objectives and that not the intent of the Regional Board to require treatment or diversionatural coastal creeks or to require treatment of natural source bacteria from undeveloped areas. The geometric mean targets may not be exceeded at any time. Tolling 30-day geometric means will be calculated on each day weekly sampling is conducted, the weekly sample result will assigned to the remaining days of the week in order to calculate daily rolling 30-day geometric mean. For the single sample tareach existing monitoring site is assigned an allowable number exceedance days for three time periods (1) summer dry-weather (1 to October 31), (2) winter dry-weather (November 1 to March		
TMDL numeric targets is achieved using a 'reference system degradation approach' rather than the alternative 'natural so exclusion approach' or strict application of the single objectives. As required by the CWA and Porter-Cologne Water Quality objectives to protect those uses, an anti-degradation proceed collectively referred to as water quality standards, and other plans policies necessary to implement water quality standards. The 'refer system'anti-degradation approach' means that on the basis of histe exceedance levels at existing monitoring locations, including a reference beach within Santa Monica Bay, a certain number of exceedances of the single sample bacteria objectives are permitted. allowable number of exceedance days is set such that bacteriological water quality at any site is at least as good as designated reference site within the watershed and (2) there is degradation of existing bacteriological water quality. This apprince of particular that may cau contribute to exceedances of the single sample objectives and that not the intent of the Regional Board to require treatment or diversing natural coastal creeks or to require treatment of natural source bacteria from undeveloped areas. The geometric mean targets may not be exceeded at any time. rolling 30-day geometric means will be calculated on each day weekly sampling is conducted, the weekly sample result will assigned to the remaining days of the week in order to calculate daily rolling 30-day geometric mean. For the single sample tareach existing monitoring site is assigned an allowable numbe exceedance days for three time periods (1) summer dry-weather (1 to October 31), (2) winter dry-weather (November 1 to March and (3) wet-weather (defined as days with 0.1 inch of rain or gr		These objectives are generally based on an acceptable health risk for marine recreational waters of 19 illnesses per 1,000 exposed individuals as set by the US EPA (US EPA, 1986). The targets apply throughout the year. The final compliance point for the targets is the point at which the effluent from a discharge initially mixes with the receiving water.
rolling 30-day geometric means will be calculated on each day weekly sampling is conducted, the weekly sample result wil assigned to the remaining days of the week in order to calculate daily rolling 30-day geometric mean. For the single sample tar each existing monitoring site is assigned an allowable numbe exceedance days for three time periods (1) summer dry-weather (1 to October 31), (2) winter dry-weather (November 1 to March and (3) wet-weather (defined as days with 0.1 inch of rain or gro		Implementation of the above bacteria objectives and the associated TMDL numeric targets is achieved using a 'reference system/antidegradation approach' rather than the alternative 'natural sources exclusion approach' or strict application of the single sample objectives. As required by the CWA and Porter-Cologne Water Quality Control Act, Basin Plans include beneficial uses of waters, water quality objectives to protect those uses, an anti-degradation policy, collectively referred to as water quality standards, and other plans and policies necessary to implement water quality standards. The 'reference system/anti-degradation approach' means that on the basis of historical exceedance levels at existing monitoring locations, including a local reference beach within Santa Monica Bay, a certain number of daily exceedances of the single sample bacteria objectives are permitted. The allowable number of exceedance days is set such that (1) bacteriological water quality at any site is at least as good as at a designated reference site within the watershed and (2) there is no degradation of existing bacteriological water quality. This approach recognizes that there are natural sources of bacteria that may cause or contribute to exceedances of the single sample objectives and that it is not the intent of the Regional Board to require treatment or diversion of natural coastal creeks or to require treatment of natural sources of bacteria from undeveloped areas.
including storm water runoff, dry-weather runoff, onsite wasted treatment systems, and animal wastes. An inventory of possible particles	Source Analysis	The geometric mean targets may not be exceeded at any time. The rolling 30-day geometric means will be calculated on each day. If weekly sampling is conducted, the weekly sample result will be assigned to the remaining days of the week in order to calculate the daily rolling 30-day geometric mean. For the single sample targets, each existing monitoring site is assigned an allowable number of exceedance days for three time periods (1) summer dry-weather (April 1 to October 31), (2) winter dry-weather (November 1 to March 31), and (3) wet-weather (defined as days with 0.1 inch of rain or greater and the three days following the rain event.) Fecal coliform bacteria may be introduced from a variety of sources including storm water runoff, dry-weather runoff, onsite wastewater treatment systems, and animal wastes. An inventory of possible point and nonpoint sources of fecal coliform bacteria to the waterbody was

Element	Key Findings and Regulatory Provisions
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Loading Capacity	The loading capacity is defined in terms of bacterial indicator densities, which is the most appropriate for addressing public health risk, and is equivalent to the numeric targets, listed above. As the numeric targets must be met at the point where the effluent from storm drains or other discharge initially mixes with the receiving water throughout the day, no degradation or dilution allowance is provided.
Waste Load Allocations (for point sources)	Waste Load Allocations (WLAs) are expressed as the number of daily or weekly sample days that may exceed the single sample limits or 30-day geometric mean limits as identified under "Numeric Target." WLAs are expressed as allowable exceedance days because the bacterial density and frequency of single sample exceedances are the most relevant to public health protection.
	Zero days of exceedance are allowed for the 30-day geometric mean limits. The allowable days of exceedance for the single sample limits differ depending on season, dry weather or wet-weather, and by sampling locations as described in Table 7-10.2.
	The allowable number of exceedance days for a monitoring site for each time period is based on the lesser of two criteria (1) exceedance days in the designated reference system and (2) exceedance days based on historical bacteriological data at the monitoring site. This ensures that bacteriological water quality is at least as good as that of a largely undeveloped system and that there is no degradation of existing water quality. However, existing data indicates that the number of exceedance days for all locations assessed in this TMDL were greater than the allowable exceedance days (i.e., number of exceedance days greater than the number at the reference sites).
an dan dan angan palah balan dan sa	For each monitoring site, allowable exceedance days are set on an annual basis as well as for three time periods. These three periods are:
	 summer dry-weather (April 1 to October 31) winter dry-weather (November 1 to March 31) wet-weather (defined as days of 0.1 inch of rain or more plus three days following the rain event).
	The responsible jurisdictions and responsible agencies are the County of Los Angeles, County of Ventura, the cities of Malibu, Calabasas, Agoura Hills, Hidden Hills, Simi Valley, Westlake Village, and Thousand Oaks; Caltrans, and the California Department of Parks and Recreation. The responsible jurisdictions and responsible agencies include the permittees and co-permittees of the municipal storm water (MS4) permits for Los Angeles County and Ventura County, and Caltrans. The storm water permittees are individually responsible for the discharges from their municipal separate storm sewer systems to Malibu Creek, Malibu Lagoon or tributaries thereto. In addition, the

Element	Key Findings and Regulatory Provisions
	cities and counties that regulate single-family onsite wastewater
	treatment systems are responsible for compliance with load allocations
	for those systems within their jurisdictions. The California Department
그렇게 가 되는 것은 살아가지 그렇게	of Parks and Recreation (State Parks), as the owner of the Malibu
	Lagoon and Malibu Creek State Park, is the responsible agency for
	these properties. However, since the reference watershed approach
	used in developing this TMDL is intended to make allowances for
医三种 医神经氏病毒性疾病	natural sources, State Parks is only responsible for: conducting a study
	of bacteria loadings from birds in the Malibu Lagoon, water quality
	monitoring, and compliance with load allocations applicable to
	anthropogenic sources on State Park property (e.g., onsite wastewater
a hay a fixing but a gard and	treatment systems). The Santa Monica Mountains Conservancy and the
Salara Bura Spire	National Park Service as the owner of natural parkland also are
化压缩 医肾髓性压缩 医肾压力	responsible for water quality monitoring and compliance with load
tinker i Milliam Çelimekê bi ke e.	allocations resulting from anthropogenic sources (e.g., onsite
Probability of months	wastewater treatment systems) from lands under their jurisdiction.
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2000年 · 新西安斯斯 · 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	As discussed in "Source Analysis", discharges from Tapia WWRF and
	effluent irrigation, and general construction storm water permits are not
왕 2선 그 전 일 2006 후 시작의	expected to be a significant source of bacteria. Therefore, the WLAs
	for these discharges are zero (0) days of allowable exceedances for all
	three time periods and for the single sample limits and the rolling 30-
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Taul III	T - 1 A11 A - (T A)
Load Allocations (for nonpoint	Load Allocations (LA) are expressed as the number of daily or weekly
sources)	sample days that may exceed the single sample limits or 30-day
가능하는 불러 충분성입니다.	geometric mean limits as identified under "Numeric Target." LAs are
	expressed as allowable exceedance days because the bacterial density
강화장이 가능하면서 하는 글 그리는	and frequency of single sample exceedances are the most relevant to
表 2. 人名斯斯特 () 藏《大人之》。 《大人》:	public health protection.
· August Air	Zero days of exceedance are allowed for the 30-day geometric mean
	limits. The allowable days of exceedance for the single sample limits
	differ depending on season, dry weather or wet-weather, and by
	sampling locations as described in Table 7-10.2.
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	The allowable number of exceedance days for a monitoring site for each time period is based on the lesser of two criteria (1) exceedance days in the designated reference system and (2) exceedance days based on historical bacteriological data at the monitoring site. This ensures
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	The allowable number of exceedance days for a monitoring site for each time period is based on the lesser of two criteria (1) exceedance days in the designated reference system and (2) exceedance days based on historical bacteriological data at the monitoring site. This ensures that bacteriological water quality is at least as good as that of a largely undeveloped system and that there is no degradation of existing water quality. However, existing data indicates that the number of exceedance days for all locations assessed in this TMDL were greater than the allowable exceedance days. For each monitoring site, allowable exceedance days are set on an

Element	Key Findings and Regulatory Provisions
	3. wet-weather (defined as days of 0.1 inch of rain or more plus three
ale as a factor of the factors	days following the rain event).
Levil Court Print Street Live	
	Onsite wastewater treatment systems were identified as the major
	nonpoint anthropogenic source within the watershed. The responsible
	agencies for load allocations are the county and city health departments
	and/or other local agencies that regulate on-site sewage treatment
	systems and owners of on-site sewage systems treatment systems
Implementation	The regulatory mechanisms to implement the TMDL may include, but
A CAMPAGA A CAMPAN	are not limited to the Los Angeles County Municipal Storm Water
interes es el como elegación	NPDES Permit (MS4), Ventura County Municipal Storm Water
But the strikes of the A.	NPDES Permit, the Caltrans Storm Water Permit, waste discharge
that the american in the	requirements (WDRs), MOUs, revised MOUs, general NPDES permits,
and the second s	general industrial storm water permits, general construction storm water
	permits, and the authority contained in Sections 13225, 13263 and
	13267 of the Water Code. Each NPDES permit assigned a WLA shall
the field of the spectrum of war are	be reopened or amended at reissuance, in accordance with applicable
	laws, to incorporate the applicable WLAs as a permit requirement.
produktiva in od od Stago i Mario i su disko se se se Povinska Stago i se	This TMDL will be implemented in three phases over a ten-year period
	as outlined in Table 7-10.3. Within three years of the effective date of
por transport in the real substitution of a first No. 2 for Information of the real substitution of the su	
	the TMDL, compliance with the allowable number of summer dry-
	weather exceedance days and the rolling 30-day geometric mean targets
a de la companya de l La companya de la co	must be achieved. In response to a written request from the responsible
	jurisdiction or responsible agency subject to conditions described in
	Table 7-10.3, the Executive Officer of the Regional Board may extend
	the compliance date for the summer dry-weather allocations from 3 to
	up to six years from the effective date of this TMDL Within six years of
	the effective date of the TMDL, compliance with the allowable number
	of winter dry-weather exceedance days and the rolling 30-day
	geometric mean targets must be achieved. Within ten years of the
	effective date of the TMDL, compliance with the allowable number of
그리아 아이 바이트 나는 이 대한 일시 하는	wet-weather exceedance days and rolling 30-day geometric mean
	targets must be achieved.
ing the second of the second o	To be consistent with the Santa Monica Bay (SMB) Beaches TMDLs,
	the Regional Board intends to reconsider this TMDL in coordination
	with the reconsideration of the SMB Beaches TMDLs. The SMB
	Beaches TMDLs are scheduled to be reviewed in July 2007 (four years
	from the effective date of the SMB Beaches TMDLs). The review will
그가 있는 일반 아이라는 생물 생	include a possible revision to the allowable winter dry-weather and wet-
garan ing Kabupatèn Kabupatèn K	weather exceedance days based on additional data on bacterial indicator
o zama o se silijana sensaji gi	densities in the wave wash; to re-evaluate the reference system selected
	to set allowable exceedance levels; and to re-evaluate the reference year
	used in the calculation of allowable exceedance days. In addition, the
	method for applying the 30-day geometric mean limit also will be
	reviewed. The Malibu Creek Bacteria TMDL is scheduled to be
	reconsidered in three years from the effective date, which is expected to
	approximately coincide with the reassessment required under the SMB

Element	Key Findings and Regulatory Provisions
	Beaches TMDLs.
Margin of Safety	A margin of safety has been implicitly included through the following
	conservative assumptions.
	• The watershed loadings were based on the 90th percentile year for
	rain (1993) based on the number of wet weather days. This should
	provide conservatively high runoff from different land uses for
	sources of storm water loads
	• The watershed loadings were also based on a very dry rain year
	(1994). This ensures compliance with the numeric target during
그를 받는 용기를 하고 있는 기술부터 하는 1학 1일과 및 기계	low flows when septic systems and dry urban runoff loads are the
	major bacterial sources.
	• The TMDL was based on meeting the fecal 30-day geometric
ि अने हुन विकास के द्वांबर _{है} ं विकास के ता	mean target of 200 MPN/ 100 ml, which for these watersheds was
기상 등 작품이 됐 않는데	estimated to be more stringent level than the allowable exceedance
	of the single sample standard. This approach also provides
) 가장 5명의 기계 기쁨 전기를 가장 되었다. 음식에 2007 - 12개 기계 기계 18개 기계 18개 기계	assurance that the E. coli single sample standard will not be exceed.
	• The load reductions established in this TMDL were based on
	reduction required during the two different critical year conditions.
	A wet year when storm loads are high, and a more typical dry year
	when base flows and assimilative capacity is low. This adds a margin of safety for more typical years.
	margin of safety for more typical years.
	In addition, an explicit margin of safety has been incorporated, as the
	load allocations will allow exceedances of the single sample targets no
	more than 5% of the time on an annual basis, based on the cumulative allocations proposed for dry and wet weather. Currently, the Regional
	Board concludes that there is water quality impairment if more than
	10% of samples at a site exceed the single sample bacteria objectives
The state of the s	annually.
Seasonal Variations and	Seasonal variations are addressed by developing separate waste load
Critical Conditions	allocations for three time periods (summer dry-weather, winter-dry
•	weather, and wet-weather) based on public health concerns and
	observed natural background levels of exceedance of bacterial
	indicators.
	To establish the critical condition for the wet days, we used rain data
	from 1993. Based on data from the Regional Board's Santa Monica Bay
	TMDL this represents the 90th percentile rain year based on rain data
	from 1947 to 2000. To further evaluate the critical conditions, we
	modeled a representative dry year. The dry-year critical condition was
	based on 1994, which was the 50 th percentile year in terms of dry weather days for the period of 1947-2000.
	weather days for the period of 1747-2000.
- Carrier Commence of the Comm	

Element	Key Findings and Regulatory Provisions
Compliance Monitoring	Responsible jurisdictions and agencies shall submit a compliance monitoring plan to the Executive Officer of the Regional Board for approval. The compliance monitoring plan shall specify sampling frequency (daily or weekly) and sampling locations and that will serve as compliance points.
	If the number of exceedance days is greater than the allowable number of exceedance days the responsible jurisdictions and agencies shall be considered out-of-compliance with the TMDL. Responsible jurisdictions or agencies shall not be deemed out of compliance with the TMDL a demonstration is made that bacterial sources originating within the jurisdiction of the responsible agency have not caused or contributed to the exceedance.
	If a single sample shows the discharge or contributing area to be out of compliance, the Regional Board may require, through permit requirements or the authority contained in Water Code section 13267, daily sampling at the downstream location (if it is not already) until all single sample events meet bacteria water quality objectives. Furthermore, if a creek location is out of compliance as determined in the previous paragraph, the Regional Board shall require responsible agencies to initiate an investigation, which at a minimum shall include daily sampling in the target receiving waterbody reach or at the existing monitoring location until all single sample events meet bacteria water quality objectives.
	The County of Los Angeles, County of Ventura, and municipalities within the Malibu Creek watershed, Caltrans, and the California Department of Parks and Recreation are strongly encouraged to pool efforts and coordinate with other appropriate monitoring agencies in order to meet the challenges posed by this TMDL by developing cooperative compliance monitoring programs.

Note: The complete staff report for the TMDL is available for review upon request.

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Table 7-10.2. Malibu Creek and Lagoon Bacteria TMDL: Final Annual Allowable Exceedance Days for Single Sample Limits by Sampling Location

	Compliance Deadline		3* years after	3* years after effective date	6 years after	6 years after effective date	10 years afte	10 years after effective date
			Summer Dr	Summer Dry Weather ^	Winter Dry	Winter Dry Weather ***	WetW	Wet Weather ***
			April 1 – C	April 1 - October 31	November	November 1 - March 31	November	November 1 - October 31
Station ID	Location Name		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)
LA RWQCB	Triunfo Creek		0	0	8		71	8
LA RWQCB	Lower Las Virgenes Creek		0	0	8		21	8
LA RWQCB	Lower Medea Creek		0	0	e	•	4	8
LVMWD (R-9)	LVMWD (R-9) Upper Malibu Creek, above Las Virgenes Creek	ss Creek	0	0	e		41	8
LVMWD (R-2)	LVMWD (R-2) Middle Malibu Creek, below Tapia discharge	large 001	0	0	æ	•	17	8
LVMWD (R-3)	LVMWD (R-3) Lower Malibu Creek, 3 mi below Tapia		0	0	e e	•		8
LVMWD (R-4)	LVMWD (R-4) Mailbu Lagoon, above PCH		0	0	8	-	21	8
LVMWD (R-11)	LVMWD (R-11) Malibu Lagoon, below PCH		0	0	8	-	11	8
	Other sampling stations as identified in the Compliance Monitoring Plan as approved by the Executive Officer including at least one sampling station in each subwatershed, and areas where frequent REC-1 use is known to occur.	in the Compliance Executive Officer station in each lent REC-1 use is	0	0	8	944 404 \$144 \$144	17	8

The allowable number of exceedance days during winter dry-weather is calculated based on the 10th percentile storm year in terms of dry days at the LAX meteorological station The allowable number of exceedance days during wet-weather is calculated based on the 90th percentile storm year in terms of wet days at the LAX meteorological station.

A dry day is defined as a non-wet day. A wet day is defined as a day with a 0.1-inch or more of rain and the three days following the rain event. Notes: The number of allowable exceedances is based on the lesser of (1) the reference system or (2) existing levels of exceedance based on historical monitoring data.

* The compliance date may be extended by the Executive Officer to up to 6 years from the effective date.

* *A revision of the TMDL is scheduled for four years after the effective date of the Santa Monica Bay Beaches TMDLs in order to re-evaluate the allowable exceedance days during winter dry-weather and wet-weather based on additional monitoring data and the results of the study of relative loading from storm drains versus birds.

Table 7-10.3. Malibu Creek and Lagoon Bacteria TMDL: Significant Dates

Date		4 3 1	Action
	s after the effec	tive date of this	Responsible jurisdictions and responsible agencies must submit a
TMDL			comprehensive bacteria water quality monitoring plan for the
- 141111	F1 4.		Malibu Creek Watershed to the Executive Officer of the Regiona
		10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Board. The plan must be approved by the Executive Officer
		X : in it	
		5 6	before the monitoring data can be considered during the
			implementation of the TMDL. In developing the 13267 order, the
		44 24 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	EO will consider costs in relation to the need for data. With
			respect to benefits to be gained, the TMDL staff report
	10 PM		demonstrates the significant impairment and bacteria loading.
			Further documenting success or failure in achieving waste load
	医多定性 电影		allocations will benefit the responsible agencies and all
			recreational water users.
			Iccicational water assis.
			Col 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			The purpose of the plan is to better characterize existing water
			quality as compared to water quality at the reference watershed,-
			and ultimately, to serve as a compliance monitoring plan. The
			plan must provide for analyses of all applicable bacteria
		4 i	indicators for which the Basin Plan has established objectives
			including E. coli. For fresh water and enterococcus for marine
		and the second	water. The plan must also include sampling locations that are
			specified in Table 7-10.2, at least one location in each
			subwatershed, and areas where frequent REC-1 use is known to
·			occur. However, this is not to imply that a mixing zone has been
			applied; water quality objectives apply throughout the
			watershed—not just at the sampling locations.
1 year a	fter effective d	ate of this	1. Responsible jurisdictions and responsible agencies shall
TMDL			provide a written report to the Regional Board outlining how
			each intends to cooperatively achieve compliance with the
			TMDL. The report shall include implementation methods, an
			implementation schedule, and proposed milestones.
			Specifically, the plan must include a comprehensive
			description of all steps to be taken to meet the 3-year summer
			dry weather compliance schedule, including but not limited to
			a detailed timeline for all category of bacteria sources under
			their jurisdictions including but not limited to nuisance flows.
· ·			urban stormwater, on-site wastewater treatment systems,
			runoff from homeless encampments, horse facilities, and
•			
			agricultural runoff.
			agricultural runoff.
			2. If the responsible jurisdiction or agency is requesting an
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule,
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted.
			 If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted. Local agencies regulating on-site wastewater treatment
			 If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted. Local agencies regulating on-site wastewater treatment systems shall provide a written report to the Regional
			 If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted. Local agencies regulating on-site wastewater treatmer systems shall provide a written report to the Regiona Board's Executive Officer detailing the rationale and criteria.
			 If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted. Local agencies regulating on-site wastewater treatment systems shall provide a written report to the Regional Board's Executive Officer detailing the rationale and criteriused to identify high-risk areas where on-site systems have
			 If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted. Local agencies regulating on-site wastewater treatmer systems shall provide a written report to the Regiona Board's Executive Officer detailing the rationale and criteri used to identify high-risk areas where on-site systems have potential to impact surface waters in the Malibu Cree
			2. If the responsible jurisdiction or agency is requesting an extension of the summer dry-weather compliance schedule, the plan must include a description of all local ordinances necessary to implement the detailed workplan and assurances that such ordinances have been adopted before the request for an extension is granted.

Date	Action
	by the Executive Officer.
	(a) Responsible agencies may screen for high-risk areas by establishing a monitoring program to determine if discharges from OWTS have impacted or are impacting water quality in Malibu Creek and/or its tributaries. A surface water monitoring program demonstration must include monitoring locations upstream and downstream of the discharge, as well as a location at mid-stream (or
	at the approximate point of discharge to the surface water) of single or clustered OWTS. Surface water sampling frequency will be weekly for bacteria indicators and monthly for nutrients. A successful demonstration will show no statistically significant increase in bacteria levels in the downstream sampling location(s).
	(b) Responsible agencies may define the boundaries of high-risk or contributing areas or identify individual OWTS that are contributing to bacteria water quality impairments through groundwater monitoring or through hydrogeologic modeling as described below:
	(1) Groundwater monitoring must include monitoring in a well no greater than 50-feet hydraulically downgradient from the furthermost extent of the disposal area, or property line of the discharger, whichever is less. At a minimum, sampling frequency for groundwater monitoring will be quarterly. The number, location and construction details of all monitoring wells are subject to approval of the Executive Officer.
	(2) Responsible agencies may use a risk assessment approach, which uses hydrogeologic modeling to define the boundaries of the high-risk and contributing areas. A workplan for the assessment study must be approved by the Executive Officer of the Regional Board.
	4. OWTS located in high-risk areas are subject to system upgrades as necessary to demonstrate compliance with applicable effluent limits and/or receiving water objectives.
	5. If a responsible jurisdiction or agency is requesting an extension to the wet-weather compliance schedule, the plan must include a description of the integrated water resources (IRP) approach to be implemented, identification of potential markets for water re-use, an estimate of the percentage of collected stormwater that can be re-used, identification of new local ordinances that will be required, a description of
	new infrastructure required, a list of potential adverse environmental impacts that may result from the IRP, and a workplan and schedule with significant milestones identified. Compliance with the wet-weather allocations

Date	Action
	shall be as soon as possible but under no circumstances shall it exceed 10 years for non-integrated approaches or extend beyond July 15, 2021 for an integrated approach. The Regional Board staff will bring to the Regional Board the aforementioned plans for consideration of extension of the wet-weather compliance date as soon as possible.
2 years after the effective date of this TMDL	The California Department of Parks and Recreation shall provide the Regional Board Executive Officer, a report quantifying the bacteria loading from birds to the Malibu Lagoon.
	The Regional Board's Executive Officer shall require the responsible jurisdictions and responsible agencies to provide the Regional Board with a reference watershed study. The study shall be designed to collect sufficient information to establish a defensible reference condition for the Malibu Creek and Lagoon watershed.
3 years after effective date of this TMDL** ** May be extended to up to 6 years from the effective date of this TMDL	Achieve compliance with the applicable Load Allocations and Waste Load Allocations, as expressed in terms of allowable days of exceedances of the single sample bacteria limits and the 30-day geometric mean limit during summer dry-weather (April 1 to October 31). In response to a written request from a responsible jurisdiction or responsible agency, the Executive Officer of the Regional Board may extend the compliance date for the summer dry-weather allocations from 3 years to up to 6 years from the effective date of this TMDL. The Executive Officer's decision to extend the summer dry-weather compliance date must be based on supporting documentation to justify the extension, including a detailed work plan, budget and contractual or other commitments by the responsible jurisdiction or responsible agency.
3 years after effective date of this TMDL	 The Regional Board shall reconsider this TMDL to: Consider a natural source exclusion for bacteria loadings from birds in the Malibu Lagoon if all anthropogenic sources to the Lagoon have been controlled. Reassess the allowable winter dry-weather and wet-weather exceedances days based on additional data on bacterial indicator densities, and an evaluation of site-specific variability in exceedance levels to determine whether existing water quality is better than water quality at the reference watershed, Reassess the allowable winter dry-weather and wet-weather exceedance days based on a re-evaluation of the selected

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Date	Action
6 years after the effective date of this TMDL	reference watershed and consideration of other reference watersheds that may better represent reaches of the Malibu Creek and Lagoon. (4) Consider whether the allowable winter dry-weather and wetweather exceedance days should be adjusted annually dependent on the rainfall conditions and an evaluation of natural variability in exceedance levels in the reference system(s), (5) Re-evaluate the reference year used in the calculation of allowable exceedance days, and (6) Re-evaluate whether there is a need for further clarification or revision of the geometric mean implementation provision. Achieve compliance with the applicable Load Allocations and Waste Load Allocations, expressed as allowable exceedance days during winter dry weather (November 1-March 31) single sample
10 years after the effective date of this TMDL ** May be extended up to July 15, 2021.	limits and the rolling 30-day geometric mean limit. Achieve compliance with the wet-weather Load Allocations and Waste Load Allocations (expressed as allowable exceedance days for wet weather and compliance with the rolling 30-day geometric mean limit.) The Regional Board may extend the wet-weather compliance date up to July 15, 2021 at the Regional Board's discretion, by adopting a subsequent Basin Plan amendment that complies with applicable law.

December 13, 2004

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